

OSI ENERGY SCOUT+ WATTHOUR METER

MODEL ESP3-

LOW-COST

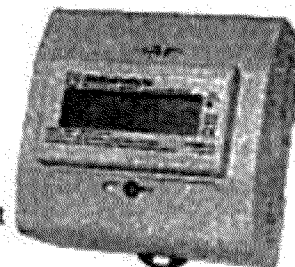
DESCRIPTION

The model ESP3 Watthour meter is used to measure energy at the input to electrical load centers or branch circuits. The unit displays Volts, Amps, Watts and power factor, in addition to import and export energy.

The unit is DIN-rail mounted and has optional indoor and outdoor enclosures. Solid-core or split-core current transformers are available.

FEATURES

- Single model for all 1 Φ and 3 Φ applications over range of 120-240Vac
- Indoor or outdoor package options
- Optional split-core current transformers



CONNECTION OPTIONS

SYSTEM CONFIGURATION	VOLTAGE INPUT (Vac)	MODEL ESP3-
1-Phase 2-Wire*	120	354EDM-N
1-Phase 2-Wire*	240	
1-Phase 3-Wire*	120/240	
1-Phase 3-Wire Network*	120/208	
3-Phase 3-Wire*	208	
3-Phase 4-Wire*	120/208	

*1 Φ 2W system requires 1 CT, 1 Φ 3W or 3 Φ 3W system requires 2 CTs, 3 Φ 4W system requires 3 CTs. Solid and Split-Core CTs are available separately. See BCT and SCCT specs on page 3.

APPLICATIONS

- Input to electrical load centers
- Branch circuits

18 MONTH
WARRANTY



ORDERING INFORMATION

Example: 3 Φ 3W Watthour Meter with 208Vac and 200Aac Input, with Split-core CTs in Outdoor Surface-mount Enclosure

ESP3-354EDM-N with
SCCT-013-200 (Qty 2) and ENC-OSM

SPECIFICATIONS

INPUT

Current Range
With appropriate CTs (I_n).....0-200, 0-400, 0-600Aac
Over-range without damage.....125% F.S.
Voltage.....Nominal.....120, 208, 240V_{L-L}
Operating Range.....Nominal \pm 30%
Power Factor.....any
Frequency Range.....47-63Hz
Power Consumption.....<1VA

OUTPUT

Pulse Value.....1.0kWh/Pulse, polarity sensitive
(NOTE: Unit is factory-programmed for CT ratio.)
Contact Closure (Low-impedance).....low<3 Ω , high>1M Ω
Duration.....50% duty cycle or 80ms, whichever is greater
Serial.....RS-485, 9600 baud (E,7,1)

DIELECTRIC TEST

Input/Output/Case.....2250Vac

ACCURACY

IEC 62052-11.....0.05(I_n).....Class 0.5

DISPLAYED VALUES

	Resolution
Energy (Import and Export).....(kWh).....	XXXXXX.X
Volts (Per-Phase).....(Vac).....	XXX.X
Amps (Per-Phase).....(Aac).....	XXX.X
Power (Per-Phase and Total).....(W).....	XXXXXXX
Power Factor (Per-Phase w/Direction).....(C or L).....	X.XX

TIME OF USE (Parameters Available via RS-485 Port)

Real-Time Clock Calendar with Battery Back-up
4 Tariff Periods (T₁, T₂, T₃, T₄) Per Day. (Active Tariff Period is shown on display below decimal point in kWh reading.)
Max. Demand for 15-, 30-, or 60-Minute Intervals.
Resettable Demand via RS-485 Port

PHYSICAL & ENVIRONMENTAL

Operating Range.....0° to 40°C
Storage Range.....-30° to 55°C
Operating Humidity.....0-85% non-condensing
Weight.....10.0 oz
Termination (Screw Compression).....20-16 AWG
Enclosure Material.....ABS

OHIO SEMITRONICS, INC.

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Ex. 4 - CBI

Quote#:
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Line	PC	Item Number/Description	Qty	Unit Price	Ext. Price
1	SA	ESP3-354EDM-NSA Watthour Meter w/RS485 Comms & Contact Closure - 1kwh/pulse	1		
2	SA	ENC-OSM Outdoor Enclosure/Meter for Surface Mtg	1		
3	SA	BCT-015-200 Current Transformers 200A	3		

Ex. 4 - CBI

Quote Prepared by:
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Sls 1
Area 27

Please Refer To The Above Quote Number
When Placing Your Order

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5. Title to any product passes to the purchaser upon shipment. Purchaser bears the risk of loss or damage to the product thereafter.

6. Unless otherwise agreed by seller, invoices not paid within 30 days after they are issued will give rise to interest on the unpaid balances at the rate of 1.5% per month. In the event seller engages in collection efforts on any delinquent accounts, seller is entitled to recover reasonable costs and attorney's fees from the account debtor.

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